

# THE DEPARTMENT OF MATHEMATICAL SCIENCES

Indiana University - Purdue University Fort Wayne

is pleased to present

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## Chvátal's $t_0$ -Tough Conjecture

### Abstract

A graph  $G$  is hamiltonian if it is possible to begin at some vertex in the graph, visit each vertex exactly once and then end at the beginning vertex. The problem of characterizing hamiltonian graphs is one of the major unsolved problems in graph theory.

In 1973, Chvátal conjectured that there is a constant  $t_0$  such that every  $t_0$ -tough graph is hamiltonian. In this talk we will carefully discuss the meaning of this conjecture, its history (including personal reminiscences of Chvátal), and some partial results.

Noon – 1:00, Monday, April 11, 2016. Location: KT 216

<http://ipfw.edu/departments/coas/depts/math/news/seminars.html>